

**WEST** Generate Collection

L13: Entry 5 of 23

File: DWPI

May 30, 1992

DERWENT-ACC-NO: 1993-051056

DERWENT-WEEK: 199306

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TITLE: Nylon fabric used for avoiding infrared detection - is printed with green and brown patterns using nonionic surfactant, green or blue metal complex dyes and black vat dye

INVENTOR: CHOI, H; SHIM, Y

PRIORITY-DATA: 1989KR-0018285 (December 11, 1989)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 9204245 B	May 30, 1992		000	D06P003/86

INT-CL (IPC): D06P 3/86

ABSTRACTED-PUB-NO: KR 9204245B

## BASIC-ABSTRACT:

To make a nylon camouflage fabric avoiding lnfrared detection, light green, dark green and brown patterns are printed onto the nylon fabric, which has been continuously scoured using nonionic surfactant and intermediately set. The process involves using mixed printing paste contg. 1:2 metal complex dyes of green or blue colour and general acid dyes, and black dye selected from aminoanthraquinone-benzanthrone deriv. which are vat dyes, or imide complex of pyranthrone, aminoanthraquinone, amino-violanthrone.

The resulting infrared camouflage nylon satisfies the specifications set by US millitary standard 43473 E class 3.

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L13: Entry 7 of 23

File: DWPI

Jan 1, 1991

DERWENT-ACC-NO: 1991-029217

DERWENT-WEEK: 200230

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TITLE: Printing of poly-meta-phenylene-iso-phthalamide fabrics - using aq. print paste on fabric supplied with N-cyclohexyl-2-pyrrolidone by pretreatment or residue of prior base-dyeing

INVENTOR: CATES, B J; KELLY, D R ; RIGGINS, P H ; COLES, B J

PRIORITY-DATA: 1989US-0394334 (August 16, 1989), 1992CA-2060373 (January 30, 1992)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 4981488 A	January 1, 1991		000	
WO 9102837 A	March 7, 1991		000	
AU 9061741 A	April 3, 1991		000	
EP 487568 A1	June 3, 1992	E	026	D06P001/642
JP 04507438 W	December 24, 1992		007	D06P003/24
CA 2060373 A	July 31, 1993		000	D06P003/24
AU 640949 B	September 9, 1993		000	D06P005/22
CA 2060373 C	March 26, 2002	E	000	D06P003/24

INT-CL (IPC): C09B 67/00; D06P 1/00; D06P 1/642; D06P 3/24; D06P 5/22; D06Q 1/02

ABSTRACTED-PUB-NO: US 4981488A

## BASIC-ABSTRACT:

A poly(m-phenylene isophthalamide) (I) textile fabric is supplied with a dye-enhancing amt. of N-cyclohexyl-2-pyrrolidone (NCHP) before applying a print paste in a predetermined pattern. The print paste consists essentially of dyestuff, thickening agent and water, and opt. additives selected from flame retardants, UV absorbers, antistatic agents and water-repellants. After drying, the treated fabric is cured; pref. any residual NCHP is removed from the fabric. The NCHP may be applied to the fabric prior to printing, or the fabric may have been dyed previously to a predetermined base shade using NCHP as the dye diffusion promoter, and also contain a flame retardant.

USE/ADVANTAGE - An exhaust process for dyeing aramid fibres and fabrics at high temps. using NCHP as dye carrier is known (see WO 8906292). It has now been found that residual NCHP in thus-treated fabrics, or indeed in undyed fabrics pretreated with NCHP, facilitates the printing with aq. print pastes. Although the use of polar solvents (such as DMSO, DMF and NMP) in aq. print pastes for aramid fibres is known (see US 4,706,523), NCHP is effective at much lower concns. of only 5 wt.% in aq. soln., thus limiting the damage such solvents cause to the fabrics; colour retention after scouring is excellent. The printed, flame-retarded fabrics are partic. applicable to military use, esp. in the form of camouflage patterns.

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File: DWPI

May 8, 1990

DERWENT-ACC-NO: 1991-146360

DERWENT-WEEK: 199120

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TITLE: Mfr. of camouflaging fabric undetectable by IR - by dyeing mixed nylon and cotton fibre fabric with anthraquinone-based dye and vat dyes

INVENTOR: SIM, Y B; SIN, T D

PRIORITY-DATA: 1987KR-0014209 (December 12, 1987)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 9003114 B	May 8, 1990		000	

INT-CL (IPC): D06P 3/87

ABSTRACTED-PUB-NO: KR 9003114B

## BASIC-ABSTRACT:

The camouflaging fabric is prep'd. by dyeing and printing a cloth made of nylon and cotton fibre by using four colours of light-green, dark-green, brown and black. The light-green dye is applied as back ground colour and then the other three colours are printed thereon. The green colour dye is benzanthione derivs. type dyes aquinone-based dye contg. diazole. The brown and black dyes are vat dyes. The camouflaging fabric is useful in woodland

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(L3 AND L4).DWPI.	26

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result set

<u>L15</u>	l3 and l4	26	<u>L15</u>
<u>L14</u>	l1 and l5	1	<u>L14</u>
<u>L13</u>	l1 and l4	23	<u>L13</u>
<u>L12</u>	l1 and l9	0	<u>L12</u>
<u>L11</u>	l5 and l4 and l3	0	<u>L11</u>
<u>L10</u>	l3 and l4 and l9	0	<u>L10</u>
<u>L9</u>	para-aramid or para aramid	117	<u>L9</u>
<u>L8</u>	l1 and l2 and l3	1	<u>L8</u>
<u>L7</u>	l1 and l3 and l5	0	<u>L7</u>
<u>L6</u>	l1 and l3 and l5 and l4	0	<u>L6</u>
<u>L5</u>	flame same resistant	8084	<u>L5</u>
<u>L4</u>	(color or colour) same printed same (fabric or textile)	517	<u>L4</u>
<u>L3</u>	cellulosic same (fibers or fibres)	5243	<u>L3</u>
<u>L2</u>	flame same retardant	14787	<u>L2</u>
<u>L1</u>	(patterned or camouflage) same (fabric or textile)	1159	<u>L1</u>

END OF SEARCH HISTORY